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50X1-HUM

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DEVELOPMENTS IN RADIO AND TELECOMMUNICATIONS, ENGINEERING IN EAST GERMANY

The Association of People-Owned Enterprises for Radio and Telecommunications Engineering was founded in Leipzig in mid-1948. It controls 40 plants and eight development bureaus, employing approximately 20,000 workers and 1,000 technical engineers. It is the leading enterprise of its kind in the German Democratic Republic.

Its production program, which gives special consideration to export trade, covers the entire field of radio technology, including the construction of giant transmitters. The production program also includes telecommunications equipment, transmitter, receiver, and cathode-ray tubes, incandescent and special lamps, fluorescent tubes, electronic measuring equipment for low, medium, and high frequency, and signal installations.

All types of radios are produced, ranging from primary receivers [receivers with one resonant circuit/ to superheterodynes. In addition to the well known RFT 7 E 81 (an 8-stage model with separate dials for the various frequency bands including band-spread for shortwave), push-button tuning, triple-band filter, magic eye, and illuminating dial) a high grade combination radio and record player has also been placed on the market. This model comes in a specially designed cabinet and is equipped with 12 tubes, 9 stages, an automatic record changer which holds 10 discs, and a magnetophone. The output stage has three loudspeakers with tone regulators for both high and low frequencies. The Standard-Super 4 U 61 (U-tubes, all currents, 6 circuits, 3 frequencies, linear dial, and plastic case) is a recent development, as is the UEL 71, which has a handsome plastic case and an inductance regulator, a metal rectifier, and a range selector connected directly with the tuning mechanism; the autenna switch is connected with the adjustable feedback. The sound reproduction of the dynamic loudspeaker is amazingly good, and the instrument is priced very reasonably.

New types of loudspeakers and microphones have also been produced.

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Among the low-, high-, and medium-frequency electronic measuring instruments produced are high quality rultirange testers distortion factor measuring bridges, frequency indicators for 10 - 100 kilohertz, a highly sensitive device for measuring turn flux in coils and transformers, miniature, sta dard, and two-beam oscillographs, and a universal amplifier which will amplify direct and alternating voltages of any desired frequency up to 100 kilohertz without distortion.

An electrostatic voltmeter, which can register minute calibrations with an accuracy of 0.1 percent, is also being produced. This instrument is used for high-precision calibration of electrostatic voltmeters up to 100 kilovolts.

Also of significance is a sound-frequency spectrometer produced in three models, 5 = 750, 36 - 18,000, and 230 - 110,000 hertz, to be used in sound analyses and experiments with oscillations of all types.

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